LIVINGSTONE-PORCUPINE HILLS

SUB-REGIONAL

INTEGRATED RESOURCE PLAN

ANNUAL REPORT
1989-1990

August 1990

Alberta

Southern Region
Regional Resource Management Committee

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Prepared by
Regional Resource Management Committee
Southern Region

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1.0 INTRODUCTION

This document provides an overview of the resource management and development activities that have occurred under the Livingstone-Porcupine Hills Sub-Regional Integrated Resource Plan (IRP) from April 1, 1989 to March 31, 1990. Information in this report is current to that date only. Completion of this annual report fulfils one requirement of the approved implementation framework for integrated resource plans.

In describing plan implementation, the report deals alphabetically with the resource sectors identified in the IRP, summarizing for each the various activities of the involved government agencies. Only those resource sectors for which implementation activities have occurred are identified. In addition to addressing those activities that have taken place specifically as a result of the IRP, this report also contains a summary of the ongoing operational activities of the agencies involved in the IRP area.

2.0 ACCESS

2.1 Access Management Plan (AMP)

PROJECT/ACTIVITY:

- Development of an access management plan to provide operational-level direction for the recreational use of on- and off-highway vehicles in the Livingstone-Porcupine Hills sub-region.

PARTICIPANTS:

- The plan will be developed with involvement from interested and affected parties. Government agencies, public interest groups, industry and local authorities will be involved.
- Plan development will be co-ordinated by the Alberta Forest Service (AFS).
- There will be a general public review of the access management plan before any recommendations are acted upon.

ANTICIPATED ACTIVITIES 1989-1990:

- Initiation of the Livingstone-Porcupine Hills AMP will depend on the following:

  (1) successful conclusion of the Castle River AMP exercise;
  (2) other priorities; and
  (3) available resources.

- Current priorities suggest the Ghost River sub-region as being the most likely candidate for the next AMP project. If there are no changes, then the Livingstone-Porcupine Hills AMP will likely be initiated in 1991-1992. This cannot occur sooner because available resources allow for undertaking only one AMP project at a time.

RESULTS ACHIEVED:

- The AMP has not been initiated pending completion of the pilot AMP currently under way in the Castle River sub-region.

RESULTS VERSUS EXPECTATIONS:

- Development of the Castle River pilot AMP has proceeded more slowly than initially anticipated. This will affect the timing for initiating subsequent AMPs.

ANTICIPATED ACTIVITIES 1990-1991:	-	No activity. The Livingstone-Porcupine Hills AMP will likely be started in 1992-1993.

3.0 ECOLOGICAL RESOURCES

3.1 Mount Livingstone Natural Area

PROJECT/ACTIVITY:	- Designation of natural area to identify and protect its ecological values. Development of an operational management plan.
PARTICIPANTS:	- AFS (lead), Public Lands Division (Lands), Fish and Wildlife Division (F&W) and Recreation and Parks (R&P). Public involvement component.
ANTICIPATED ACTIVITIES 1989-1990:	- Establishment of a planning team and initiation of the management plan. - Development and completion of draft plan (to public review stage).
RESULTS ACHIEVED:	- No activity.
RESULTS VERSUS pending EXPECTATIONS:	- Formation of planning team was postponed completion/approval of other management plans currently in preparation, e.g., Beehive Natural Area, Upper Bob Creek Ecological Reserve.
ANTICIPATED ACTIVITIES 1990-1991:	- Initiate management planning process for Mount Livingstone Natural Area once management plans currently in progress have been completed and approved.

3.2 Upper Bob Creek Ecological Reserve

PROJECT/ACTIVITY:	- Designation of ecological reserve to identify and protect its ecological values. Development of an operational management plan.
PARTICIPANTS:	- AFS (lead), R&P (co-ordinator), F&W. Public involvement component.
ANTICIPATED ACTIVITIES 1989-1990:	- Terms of reference for the management plan are to be written by AFS and submitted to the Ecological Reserves Co-ordinating Committee for approval.

RESULTS ACHIEVED:

- Terms of reference were submitted to the Ecological Reserves Co-ordinating Committee and approved.
- A planning team was established and completed a draft plan, which was reviewed by consultative groups.

ANTICIPATED ACTIVITIES 1990-1991:

- Final review and approval of the draft plan by the planning team and consultative groups, followed by submission of draft plan to the Ecological Reserves Co-ordinating and Advisory Committees.

3.3 Beehive Natural Area

PROJECT/ACTIVITY:

- Designation of natural area to identify and protect its ecological values. Development of an operational management plan.

PARTICIPANTS:

- AFS (lead), Regional Co-ordination Services (RCS), F&W, Cowley Forest Products Ltd., Alberta Wilderness Association (AWA). Public involvement component.

ANTICIPATED ACTIVITIES 1990:

- Public review of the draft plan (roundtable 1989-meeting with affected parties plus an information exchange session for the general public).
- Team revisions to the draft plan as appropriate.
- Review and approval of management plan by government agencies and site stewards.
- Initiate plan implementation.

RESULTS ACHIEVED:

- The draft plan was reviewed at a roundtable meeting with affected parties (July 1989) and at a general public meeting (September 1989).
- Minor revisions were made by the team in response to public feedback.
- The draft plan has been endorsed by the Southern Region Regional Resource Management Committee (RRMC) and is undergoing final review and approval by appropriate government agencies in Edmonton.

RESULTS VERSUS EXPECTATIONS:	- Final approval has been delayed pending agreement on minor changes to the draft plan.
ANTICIPATED ACTIVITIES 1990-1991:	- Approval and implementation of plan.

4.0 FISHERIES

4.1 Stream and Lake Inventories

PROJECT/ACTIVITY:
- Inventory of fish populations in stream and lakes.

PARTICIPANTS:
- F&W lead.

ANTICIPATED ACTIVITIES 1989-1990:
- Resample section of Dutch Creek to obtain current population estimates.
- Conduct fish population estimates in sample section of Dutch and Racehorse creeks to determine success of habitat improvement work carried out in 1988 and 1987, respectively.

RESULTS ACHIEVED:
- Population estimates were made in September and October 1989 on Dutch Creek for sport fishery management purposes. The cutthroat trout (CT) population was difficult to estimate because of low water temperatures which resulted in low recaptures. It would appear, however, that the cutthroat trout population has continued to increase, while the numbers of legal-sized fish remain very low.
- The presence of cutthroat trout was confirmed in the habitat improvement structures in Dutch Creek, but no population estimates were made.

RESULTS VERSUS EXPECTATIONS:
- No fish population work was done in Racehorse Creek in 1989.

ANTICIPATED ACTIVITIES 1990-1991:
- Repeat population estimates of fish in sample section of Dutch Creek.
- Assess the status of Phillips Lake cutthroat trout population.
- Conduct a preliminary survey of Crowsnest Lake and its tributaries to consider possible reintroduction of bull trout to this drainage.
- If permission is obtained, carry out rehabilitation of Lee Lake to rid it of introduced redsided shiners.

4.2 Fisheries Surveys

PROJECT/ACTIVITY: - To provide direction for future species management, and determine habitat protection and development strategies.

PARTICIPANTS: - F&W lead.

ANTICIPATED ACTIVITIES 1989-1990: - Whenever possible, collect creel data from lakes and streams within Livingstone-Porcupine IRP boundaries.

RESULTS ACHIEVED: - The ability for Fish and Wildlife staff to collect data was reduced in 1989 because of manpower shortage. The following table summarizes the data collected:

Table 1. Angler catch/use data in lakes in the Livingstone-Porcupine IRP, 1989.

LAKE	NO. OF CENSUS DAYS	NO. OF ANGLERS PRESENT	NO. OF ANGLERS INTERVIEWED	TOTAL HOURS FISHED	TOTAL TROUT CAUGHT	C.U.E. (FISH/HR)	TOTAL SUCKERS CAUGHT	C. U. E.
Crowsnest L.	6	22	22	465.0	9	0.19	0	-
Island L.	17	65	65	142.2	17	0.12	10	0.07
Lee L.	4	10	10	21.5	10	0.46	1	-
STREAM								
Crowsnest R.	18	137	15?	262.0	265	1.01	0	-

The Livingstone River and Vicary Creek were checked three times in 1989, but only five anglers were encountered.

ANTICIPATED ACTIVITIES 1991:

- Collect creel data, whenever possible, from 1990-lakes and streams within the Livingstone-Porcupine IRP boundary as part of the Regional Creel Survey.
- Carry out a two-person roving creel survey on the streams in the Livinstone drainage (Livingstone River, Upper Oldman River and Dutch Creek).
- Maintain creel box at Window Mountain Lake.

5.0 RANGE AND AGRICULTURAL RESOURCES

5.1 Range Management, Resource Management Areas (RMAs), A,B,C,E,F & G

PROJECT/ACTIVITY:

- Manage domestic livestock to achieve uniform forage use.
- Maintain healthy range condition, intensify range management practices.
- Identify areas suitable for forage production on a sustained-yield basis.
- Note areas critical for the maintenance of wildlife in the area.

PARTICIPANTS:

- AFS lead. Consultation with F&W and Lands.

ANTICIPATED ACTIVITIES 1989-1990:

- Completion of range management plans for Beaver Creek, Bob Creek, Burke Creek, Chaffen Creek, East Trout, Waldron and West Trout allotments.
- Assessment of forage production on cutblocks in Gap Allotment.
- Continue weed control throughout planning area.
- Assessment of brush control projects completed in the Todd Creek, Burke Creek and Beaver Creek allotments.
- Initiate range inventory and management plan development for the Olin Creek, Meade Creek, Owl Creek, Hunter Creek, and Savanna Creek allotments.

RESULTS ACHIEVED:

- Range management plans still incomplete. Format and content of plans was adapted to better reflect other users, especially wildlife.
- An assessment of cutblock forage production was conducted. Area was only lightly used. Reallotment of grazing within the grazing association was undertaken to better distribute grazing.
- Weed control activities were undertaken as required.
- Assessment of brush control in the Todd Creek and Beaver Creek allotments was completed

successfully. Burke Creek areas were retreated in 1989 with drag scarification equipment.
- Inventories were completed for the Meade, Olin, Owl, Hunter and Savanna Creek allotments. Data were compiled and rough draft maps completed.

ANTICIPATED ACTIVITIES 1990-1991:

- Completion of range plans for Beaver, Bob, Burke, Chaffen, East Trout and West Trout Creek allotments.
- First draft of plans for Olin, Owl and Hunter, Meade and Savanna Creek allotments to be completed.
- Continue assessment of forage production in cutblocks in the Gap Allotment.
- Continue weed control throughout the planning area.
- Continue assessment of brush control in the Todd, Beaver and Burke Creek allotments.
- Construct and begin monitoring of a range exclosure in the Upper Bob Creek Ecological Reserve to monitor the impact of grazing.
- Range inventories for the Byron, Lyons and Star Creek allotments.

5.2 Stocking Levels, RMAs A,B,C,E,F & G

PROJECT/ACTIVITY:

- Maintain 1977 stocking levels.

PARTICIPANTS:

- AFS lead.

ANTICIPATED ACTIVITIES 1989-1990:

- Inspection and monitoring of range condition and stocking rates.
- Issuance of grazing permits.
- Identification of suitable sites for range improvement.

RESULTS ACHIEVED:

- All allotments except Chaffen Creek, and Langford Riley were inspected this year.
- One hundred and twenty-two grazing permits were issued for 31 263 animal unit months (AUMs).

RESULTS VERSUS EXPECTATIONS:

- Identification of sites suitable for range improvement was delayed to 1990-1991 because of inclement weather.

ANTICIPATED ACTIVITIES 1990-1991:

- Inspection and monitoring of range condition and stocking rates.
- Issuance of grazing permits.
- Identification of suitable sites for range improvement.

5.3 Range Management, RMA D

PROJECT/ACTIVITY:

- Grazing lease renewals and periodic inspections as required. Range survey on grazing leases where identified by staff.

PARTICIPANTS:

- Lands lead. Consultation with F&W and AFS as required.

ANTICIPATED ACTIVITIES 1989-1990:

- Four grazing lease renewal applications and 19 periodic inspections are projected.
- Implementing the recommendations from 17 range surveys.
- Inventory approximately 300 quarter sections for inclusion in resource management plans.

RESULTS ACHIEVED:

- Four grazing leases were renewed and, where necessary, management changes were requested. The recommendations from a range survey were implemented on one lease renewal and a management plan completed.
- Range survey recommendations were discussed with 12 grazing lessees and, where necessary, changes in management were undertaken.

RESULTS VERSUS EXPECTATIONS:

- Implementing the recommendations from five range survey, and 19 grazing lease/permit periodic inspections were not completed due to re-allocation of time to other projects.
- Inventory of approximately 300 quarter sections for inclusion in resource management plans is on hold due to a re-allocation of time to other projects.

ANTICIPATED ACTIVITIES 1990-1991:

- One grazing lease renewal application and 25 periodic inspections are projected.
- Implementation of range survey recommendations on the Waldron Grazing Co-op Ltd. grazing lease.
- Implementing the recommendations from five range surveys.

5.4 Range Improvement, RMA D

PROJECT/ACTIVITY:

- Undertake a wide variety of range improvement projects such a brushing, controlling regrowth, pasture seeding, water development and cross-fencing.

PARTICIPANTS:

- Lands lead. Consultation with F&W and AFS as required.

ANTICIPATED ACTIVITIES 1989-1990:

- Twenty range improvement activities are ongoing. Additional applications are anticipated during the year based upon initiation by the lessee.

RESULTS ACHIEVED:

- Twenty range improvement projects were undertaken. Seeding, repiling of windrows and control of aspen regrowth occurred.

ANTICIPATED ACTIVITIES 1990-1991:

- Twenty range improvement projects are ongoing. Additional applications are anticipated during the year based upon initiation by the lessee.

6.0 RECREATION

6.1 Facilities and Opportunities

PROJECT/ACTIVITY:

- Provision and maintenance of a wide range of high quality, accessible and affordable public facilities.

PARTICIPANTS:

- AFS lead.

ANTICIPATED ACTIVITIES 1989-1990:

- Continued maintenance of existing facilities based on provincial standards.
- Upgrade Racehorse and Dutch Creek forest recreation areas and possible staging area/group camp/day-use site in the Northwest Branch Road area (dependent on budget availability; allocation may be deferred to 1990-1991).
- Continue monitoring of random camping sites in the planning area as opportunity permits.
- Continue preparation of a report regarding backcountry staging and trails in the North Porcupine Hills (RMA E)
- Initiation and completion of forest recreation area upgrading projects will be undertaken as available resources permit.

RESULTS ACHIEVED:

- Minor maintenance was conducted on existing facilities.
- Upgraded east loop of Chinook Recreation Area and north loop of Racehorse Recreation Area.
- User statistics have been compiled for forest recreation areas and random camping within the Livingstone-Porcupine Hills IRP area. These are depicted in Table 1.
- Random campsites were monitored as opportunities permitted.
- Work continued on preparation of a report dealing with backcountry staging and trails in the North Porcupine Hills.

Table 2. User Statistics: Forest Recreation Areas

FOREST RECREATION AREAS				
		1989	1988	1987
Chinook	Camping	18906	15610	9645
	Day Use	1517	3459	-
Dutch Creek	Camping	7648	7910	8867
	Day Use	509	499	-
Livingstone Falls	Camping	10038	5235	5315
	Day Use	541	582	-
Oldman River	Camping	2810	2173	2339
	Day Use	445	179	-
Racehorse	Camping	5670	5069	5347
	Day Use	605	413	-
Allison-Day Use/Ski Staging		8038	5066	-
Gap Pond Day Use		653	330	-
Atlas Road Snowmobile Staging		675	-	-

RANDOM CAMPING				
		1989	1988	1987
Allison-McGillivray	Camping	1718	9920	-
	Day Use	-	645	-
Beaver Creek	Camping	1149	8739	-
	Day Use	-	-	-
Daisy Creek	Camping	538	1085	-
	Day Use	-	-	-
Dutch Creek	Camping	10264	18817	-
	Day Use	-	-	-
Livingstone River	Camping	5031	20534	-
	Day Use	-	-	-
Lower Oldman	Camping	10458	6014	-
	Day Use	-	-	-
Upper Oldman	Camping	3414	1021	-
	Day Use	-	-	-
Racehorse Creek	Camping	5099	31651	-
	Day Use	-	-	-
Spring Creek (Bob Creek)	Camping	281	3565	-
	Day Use	-	-	-
Tent Mountain	Camping	358	-	-
	Day Use	-	-	-

ANTICIPATED ACTIVITIES 1990-1991:

- Upgrade Dutch Creek Recreation Area.
- Upgrade Chinook Lake Recreation Area (units 41-63).
- Modify units 1-10 in Oldman River Recreation Area.

NOTE: Because of limited budget, priorities will have to be determined.

6.2 Commercial Operations

PROJECT/ACTIVITY:

- Reviewing applications and monitoring commercial developments, operations and services consistent with the recreational intent of the area.

PARTICIPANTS:

- AFS lead.

ANTICIPATED ACTIVITIES 1989-1990:

- Issuing permits, monitoring existing commercial operations and conducting inspections as required.

RESULTS ACHIEVED:

- Three commercial trail riding permits were issued (one in the Livingstone area and two in the Racehorse area).
- Existing commercial operations were monitored.

ANTICIPATED ACTIVITIES 1990-1991:

- Monitor existing commercial operations and conduct inspections as required.
- Because of high equestrian and general recreation use levels, the issuance of additional commercial trail riding permits will be limited from Racehorse Creek to the south boundary of the planning area.

7.0 TIMBER

7.1 Forest Protection

PROJECT/ACTIVITY:
- Protecting the forest from fire, insects and disease.

PARTICIPANTS:
- AFS lead.

ANTICIPATED ACTIVITIES 1989-1990:
- Protect forest from fire, insects and disease (ongoing).
- Adherence to comprehensive fire management plan.

RESULTS ACHIEVED:
- The following fire suppression took place:

  DB6-2-89, 0.1 ha, lightning.
  DB6-3-89, 0.2 ha, unknown cause.

- Two hundred suspect trees were surveyed for mountain pine beetle.
- Eleven sites were monitored for mountain pine beetle through use of pheromone baits. Highest attacks were identified in the Tent Mountain area. The population appears to be endemic.
- Seven permanent sample plots were established to monitor dwarf mistletoe on a long-term basis.

ANTICIPATED ACTIVITIES 1990-1991:
- Continued monitoring of mountain pine beetle populations.
- Two prescribed burns for silviculture purposes will be planned and completed in the fall of 1990.
- Continued monitoring of dwarf mistletoe throughout the area.
- Adherence to comprehensive fire management plan.

7.2 Reforestation

PROJECT/ACTIVITY:
- Reforestation of lands in the sustained-yield timber base.

PARTICIPANT:
- AFS lead.

ANTICIPATED ACTIVITIES 1989-1990:
- Regeneration surveys: 133.7 ha.
- Scarification: 515.2 ha.
- Free-to-grow surveys: 739.9 ha.

RESULTS ACHIEVED:
- Regeneration Surveys: 130 ha.
- Scarification: 515 ha.
- Free to Grow Surveys: 738 ha.
- Aerial Seeding: 458 ha.
- Planting: None
- Genetics: Lodgepole pine stands were monitored and assessed in order to collect superior cones for use as a high quality seed source.

ANTICIPATED ACTIVITIES 1990-1991:
- Regeneration Surveys: 145 ha.
- Scarification: 376 ha.
- Free to Grow 381 ha.
- Planting: None
- Aerial Seeding: 376 ha.
- Continued monitoring of superior stands for cone collection of lodgepole pine, douglas fir and white spruce.

7.3 Timber Harvesting

PROJECT/ACTIVITY:
- Maintain the annual allowable cut.
- Integrate logging with other land use activities through forest management plans.
- Use landscape logging and other aesthetic harvesting practices as appropriate.

PARTICIPANTS:
- AFS lead.

ANTICIPATED ACTIVITIES 1988-1990:
- Complete forest inventory for C02 forest management unit.
- Work is anticipated on various timber licences as follows:

  (1) ongoing operations on two timber licenses in the North Porcupine Hills (harvesting of 10 979 m^3 and 26 571 m^3, respectively);

(2) ongoing operations on the Oyster/Straight/ Pasque creeks timber licence (harvesting of 30 613 m^3);
(3) completion of operations on two timber licenses in the Racehorse area (harvesting of 3300 m^3 and 2400 m^3, respectively);
(4) ongoing operations on one timber licence in the Racehorse area (harvesting of 14 000 m^3);
(5) completion of operations on the Hidden Creek timber licence (harvesting of 1000 m^3);
(6) ongoing operation on one timber licence in the Livingstone area (harvesting of 24 000 m^3); and
(7) commencement of operations on one timber licence in the Racehorse area (harvesting of 69 000 m^3).

- Issuance of local timber permits (LTPs) and forest products permits.

RESULTS ACHIEVED:

- Work was undertaken on various timber harvesting licences issued under timber quota allocation as follows:

C1-L15 (Porcupine Hills) 11 422 m^3 (ongoing)
C2-L23 (Oyster, Straight Pasque) 22 791 m^3 (ongoing)
C2-L13 (Racehorse) 4158 m^3 (complete)
C2-L10 (Racehorse) 4084 m^3 (complete)
C2-L29 (Racehorse) 14 000 m^3 (complete)
C2-L27 (Hidden Creek) 1920 m^3 (complete)
C2-L25 (Livingstone) 6407 m^3 (complete)
C5-L3 (Racehorse) 64 305 m^3 (ongoing)

- Four LTPs were issued in the Lyndon Creek area for a total of 520 m^3 of wood.

ANTICIPATED ACTIVITIES 1990-1991:

- Work is anticipated on various timber licences as follows:

(1) Ongoing operations on one timber licence (C5-L3) in the Racehorse area (harvesting of 52 000 m^3).

(2) Ongoing operations on one timber licence (C1-L15) in the Porcupine Hills area (harvesting of 25 000 m^3).
(3) Ongoing operations on the Oyster/Straight/ Pasque creeks timber licence (C2-L23 - harvesting of 35 000 m^3).

- Complete inventory for C02 Forest Management Unit.
- Issuance of LTPs and forest products permits as demand warrants.
- The next timber harvesting licence area for Johnson Brothers will be cruised, the data compiled and licence issued - Porcupine Hills (Heath Creek) for the fall 1990

8.0 WATER AND WATERSHED

8.1 Watershed Management

PROJECT/ACTIVITY: - To develop a watershed management plan to assist in meeting the IRP's broad objectives.

PARTICIPANT: - AFS (lead), F&W, Alberta Environment (AE).

ANTICIPATED ACTIVITIES 1989-1990: - Completion of a five-year operation watershed management plan.

RESULTS ACHIEVED: - The draft plan has been completed.

ANTICIPATED ACTIVITIES 1990-1991: - Implementation of the five-year operational watershed management plan; contingent on budget availability.

8.2 Reclamation

PROJECT/ACTIVITY: - To complete proposed reclamation projects, notably:

(1) seismic lines in the Ridge, Beaver and Deep Creek areas (RMA-A);
(2) access roads in Hidden Creek to be reclaimed immediately following logging (RMA-A);
(3) reclamation of a trail and mine exploration site in the Ernst-Todd Creek area (RMA-C); and
(4) reclamation of sites in the Ptolemy, Allison and Byron Creek areas (RMA-G).

PARTICIPANTS: - AFS lead.

ANTICIPATED ACTIVITIES 1989-1990: - Ridge and Beaver Creek seismic line: reclamation involves trail closure -- ministerial approval is being sought. An open house meeting is scheduled for June 1989. If the project is approved soon after, reclamation work could be completed in the summer of 1989.

- Deep Creek seismic line: project completion expected in summer of 1989 pending budget approval by AE.
- Hidden Creek access road: reclamation project completion expected by summer of 1990.
- Ptolemy Creek: determination of point where creek terminates, creek ford hardening and bridge replacement on Crowsnest Creek
- Allison Creek/Deadman's Pass: proposal on hold pending access management plan initiation.
- Byron Creek mine site: resolution of reclamation responsibility.

RESULTS ACHIEVED:

- Reclamation of the Ridge, Beaver and Deep Creek seismic lines was completed.
- Reclamation of Hidden Creek access roads was completed.

RESULTS VERSUS EXPECTATIONS:

- The Ptolemy Creek project is on hold due to limited resources and competing priorities.
- The Allison Creek/Deadman's Pass proposal is on hold pending the AMP.
- Reclamation of the Bryon Creek mine site is on hold. Reclamation responsibility remains unclear.

ANTICIPATED ACTIVITIES 1990-1991:

- Remedial work will be undertaken on Ridge, Beaver and Deep Creek seismic lines if necessary.

8.3 Water Impoundments

PROJECT/ACTIVITY:

- To assess the feasibility of constructing small water impoundments in the Porcupine Hills to sustain a recreational fishery, provide water for forest protection and range management purposes, and augment downstream water use.

PARTICIPANTS:

- F&W (lead), AFS, AE, R&P.

ANTICIPATED ACTIVITIES 1989-1990:

- Project/planning initiation not anticipated for 1989-1990 because of higher priority of other projects. Re-evaluate project initiation for 1990-1991.

RESULTS ACHIEVED:

- None.

ANTICIPATED ACTIVITIES 1990-1991: - None. This project remains a low priority.

8.4 Stream Crossing Assessment

PROJECT/ACTIVITY: - To assess water quality problems caused by improper stream crossings, and to take appropriate measures to eliminate these problems.

PARTICIPANTS: - AFS lead. Consultation with F&W, Lands and Alberta Transportation and Utilities.

ANTICIPATED ACTIVITIES 1989-1990: - A watershed management crew will commence inventory work during the summer of 1989 in conjunction with F&W. Reclamation planning will be undertaken as required.

RESULTS ACHIEVED: - No work was undertaken.

RESULTS VERSUS EXPECTATIONS: - Manpower and budget limitations meant that only limited work could be conducted and the Castle drainage had a higher priority.

ANTICIPATED ACTIVITIES - None, owing to manpower and budget limitations.

9.0 WILDLIFE

9.1 Elk Population Monitoring

PROJECT/ACTIVITY: - Determination of the status of the Porcupine Hills and Oldman-Livingstone elk populations.

PARTICIPANTS: - F&W lead.

ANTICIPATED ACTIVITIES 1990: - An annual census will be undertaken for 1989-1989-1990.

RESULTS ACHIEVED: - A survey of the Porcupine Hills and Livingstone elk populations (wildlife management units [WMUs] 304, 305, 306, 308 and 402) was completed during February 1990. Population status information assembled from the survey indicated elk numbers in WMU 305 are near the prescribed goal, while the population in WMU 304 is beyond the stated goal. The 1990 harvest program for WMU 304 has been designed to achieve population reduction. Elk populations in the Livingstone area remain at or near identified goals.

ANTICIPATED ACTIVITIES 1990-1991: - Census activities are tentatively scheduled for 1990-1991.

9.2 Moose Population Monitoring

PROJECT/ACTIVITY: - Determination of the status of the Porcupine Hills, Oldman-Livingstone and Willow Creek moose populations.

PARTICIPANTS: - F&W lead.

ANTICIPATED ACTIVITIES 1990-1991: - The biennial population monitoring program will again be scheduled for 1990-1991.

RESULTS ACHIEVED: - No activities were scheduled for 1989-1990.

ANTICIPATED ACTIVITIES - The biannual population monitoring program will be undertaken during 1990-1991.

9.3 Mountain Goats

PROJECT/ACTIVITY: - Evaluation of a goat population transplant that took place in the Livingstone Range in 1987.

PARTICIPANTS: - F&W lead.

ANTICIPATED ACTIVITIES 1989-1990: - Additional effort will be directed towards monitoring the transplanted goat population as well as obtaining survival and production information during the spring and early summer of 1989.

RESULTS ACHIEVED:
- During July 1989, an aerial survey was conducted to assess the status of mountain goats transplanted to the Livingstone Range.
- A total of 9 goats (6 adults, 1 yearling, and 2 kids) were observed. An observation report received from the public indicated possible production of 3 kids during 1989.

ANTICIPATED ACTIVITIES 1990-1991: - An aerial survey to obtain updated status information is proposed for July 1990.

9.4 Elk and Bighorn Sheep Winter Range Assessment

PROJECT/ACTIVITY: - Investigate factors influencing productivity of elk and sheep winter ranges in the Livingstone-Porcupine Hills planning area.

PARTICIPANTS: - F&W lead, Land Information Services Division (LISD).

ANTICIPATED ACTIVITIES 1989-1990: - Results of the Bob Creek Winter Range Habitat Study will be reviewed critically and a plan of action devised to address range management needs.

RESULTS ACHIEVED: - Some preliminary evaluations of habitat improvement sites were completed; however,

topographic constraints have impeded progress and no decision has been made regarding any action plans.

ANTICIPATED ACTIVITIES 1990-1991: - None.

9.5 Wild Turkeys (NEW INITIATIVE)

PROJECT/ACTIVITY: - Winter and spring population inventory.

PARTICIPANTS: - Local Fish and Game Clubs (lead), F&W (co-ordination).

ANTICIPATED ACTIVITIES 1989-1990:
- Conduct winter population inventory.
- Develop spring population monitoring procedure.

RESULTS ACHIEVED: - Lethbridge Fish and Game Club members organized and conducted winter inventory.

ANTICIPATED ACTIVITIES: 1990-1991:
- Implement spring and winter population inventory programs.
- Initiate limited entry season May-June 1991.

10.0 ONGOING ADMINISTRATIVE AND OPERATIONAL ACTIVITIES

10.1 Overview

Day-to-day administrative and management activities often take place that are not specifically related to the Livingstone-Porcupine Hills IRP. The IRP, nevertheless, constitutes the framework within which many of these activities take place. In some cases, such as with the review of disposition applications and other referrals, the link with the IRP may be quite explicit. Accordingly, a summary on ongoing divisional operation activities is included below.

10.2 Alberta Forest Service

PROJECT/ACTIVITY: - Ensuring that land use activities are integrated and conform to the management intent for the Livingstone-Porcupine Hills area.

ANTICIPATED ACTIVITIES 1989-1990: - Approval, approval with conditions, or rejection of land use disposition applications.

RESULTS ACHIEVED: - Number and Type of Forest Land Use Referrals

5 - Geophysical
3 - Mineral Surface Lease
2 - License of Occupation
3 - Pipeline Agreement
2 - Miscellaneous Permit
2 - Surface Material Lease
2 - Herbicide Applications (grazing)
4 - Metallic Mineral Exploration
1 - Coal Exploration Program

24 TOTAL REFERRALS

ANTICIPATED ACTIVITIES 1990-1991: - Approval, approval with conditions or rejection of land use disposition applications.

10.3 Alberta Fish and Wildlife

10.3.1 Referrals

Number and Type of Land Use Referrals

4 - Mineral surface leases
3 - Licenses of occupation
3 - Pipeline agreements
2 - Miscellaneous permits
2 - Surface materials leases
1 - Consultative notation
5 - Geophysical programs
1 - Coal exploration program
7 - Timber referrals
1 - Water resources permit
1 - Highway referral
2 - Land exchanges
3 - Metallic minerals exploration
2 - Motorcycle races
1 - Crown minerals
1 - Commercial trail ride

39 TOTAL REFERRALS

10.3.2 Wildlife Occurrences

Fish and Wildlife responded to a number of wildlife support occurrences* during the reporting period as follows:

Number and Type of Wildlife Support Occurrences

5	- Beaver	
2	- Request fencing	
2	- Elk	- haystack
1		- depredation
3	- Deer	- garden
3	- Coyote kill	
13	- Wolf kill	
1	- Cougar	- sighting
1	- Grizzly bear	- sighting
5		- kills
1	- Black bear	- campground
26		- yard
2		- feeding/carcasses
2		- sightings
24	- Road kill	
15	- Diseased & wounded animals	
11	- Diseased & wounded birds	
117	TOTAL OCCURRENCES	

10.4 Alberta Public Lands

The following administrative duties were carried out in RMA-D:

4	- Grazing lease renewal applications
20	- Range improvement projects
2	- Miscellaneous permit applications
1	- Licence of occupation applications
4	- Pipeline agreements
1	- Recreational lease applications
32	TOTAL REFERRALS

* Any wildlife situation requiring action by a Fish and Wildlife officer.

11.0 HOUSEKEEPING CHANGES/AMENDMENTS

No changes to the plan were requested or made during the reporting period.

12.0 ACRONYMS/INITIALISMS

The following abbreviations are used in this report:

AE	Alberta Environment
AFS	Alberta Forest Service (a division of Alberta Forestry, Lands and Wildlife)
AMP	Access Management Plan
AUM	Animal Unit Month
AWA	Alberta Wilderness Association
CT	Cutthroat Trout
CUE	Catch per unit effort
EBT	Eastern Brook Trout
F&W	Alberta Fish and Wildlife (a division of Forestry, Lands and Wildlife)
IRP	Integrated Resource Plan
LANDS	Alberta Public Lands (a division of Forestry, Lands and Wildlife)
LISD	Land Information Services Division (a division of Alberta Forestry, Lands and Wildlife)
LT	Lake Trout
LTP	Local Timber Permit
MTU	Miscellaneous Timber Use
MWF	Mountain Whitefish
R&P	Alberta Recreation and Parks
RB	Rainbow Trout
RCS	Regional Co-ordination Services (a branch of Alberta Forestry, Lands and Wildlife)
RMA	Resource Management Area
RRMC	Southern Region Regional Resource Management Committee
WMU	Wildlife Management Unit